

Desiro ML ÖBB Cityjet eco

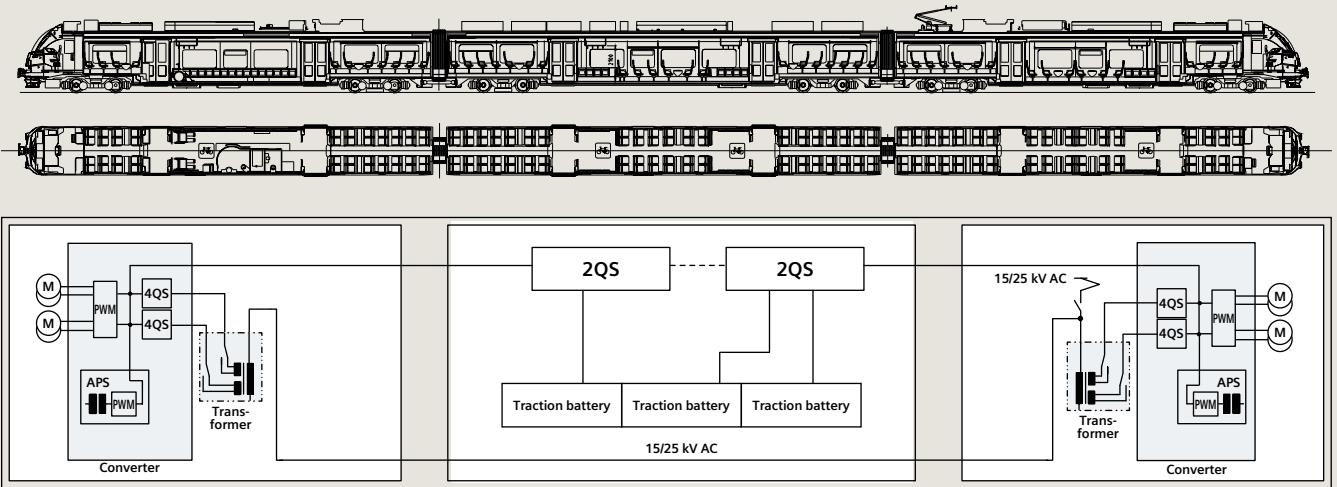
for ÖBB Personenverkehr AG

As part of the "Update Fleet Strategy 2035" program initiated by ÖBB Holding AG, the battery-powered Cityjet subproject will be implemented in Subpackage 2, "Alternative Drive Systems." With this project, ÖBB Personenverkehr AG and Siemens Mobility GmbH Austria intend to design, build, and experimentally operate a battery-powered train as part of an innovative partnership. The goal of this prototype project is to gain experience in operating alternative drive types under all operating conditions (summer/winter operation).

For this purpose, a series-production trainset will be provided from current production that will be converted and subsequently tested in regular operation as a battery-powered vehicle.

Ongoing serial production of the ÖBB Cityjet provides an opportunity to take a vehicle, convert it to a battery-powered multiple unit, and use it as a prototype train during a trial period, all in a short period of time. This makes it possible to reduce the usual delivery/production times for a new vehicle by more than half.

Furthermore, the ÖBB Cityjet's existing vehicle concept is ideal for the upgrade to a battery-powered multiple unit because it has sufficient space and weight reserves.



Technical Data	AC mode	Battery mode
Wheel arrangement	Bo'Bo'+2'2'+Bo'Bo'	
Track gauge	1,435 mm	
Maximum speed	140 km/h	120 km/h
Traction power	up to 2,600 kW	
Installed battery capacity		528 kWh
Starting acceleration	1.0 m/s ²	0.77 m/s ²
Power supply	15 kV AC / 25 kV AC	
Length (over coupling)	75,152 mm	
Floor height	600 mm	
Entrance areas	6 on each urban train	
Capacity	244 seats on urban train	
Maximum axle load	< 17 t including traction battery pack	
Crashworthiness	TSI and EN 15227 conform	
Fire protection	CEN / TS 45545 and DIN 5510 Fire protection level 2	

Interior design

Combined with the attractive design, the construction of the train's interior creates a spacious ambience, coupled with comfort and safety, timeless color schemes and folding tables.

Project details –

series-production vehicle:

- Passenger compartment with a modern and future-oriented design
- Daylight-dependent LED lighting
- Generous seat spacing
- Passenger seats tailored to passenger requirements were developed in cooperation with ÖBB
- All passenger seats are adjustable
- Separate multipurpose areas for bicycle transport
- CO₂-controlled air conditioning
- Multifunctional multipurpose areas with sufficient space
- Large displays for passenger information
- Bogies from the SF6000 family
- Ramp-free access to universal WC
- All entrances have a low sliding step and the last entrance has an extendable step designed to bridge the gap

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